# Catalog of State Protection Development Grants Fiscal Year 1994

### Fifth Edition

U.S. Environmental Protection Agency Office of Water Office of Wetlands, Oceans and Watersheds Wetlands Division

### **TABLE OF CONTENTS**

**Introduction to Catalog** 

Highlights of the FY 1994 State/Tribal Grant Program

**Headquarters Set Aside** 

### Alabama

Department of Environmental Management

### <u>Alaska</u>

Department of Fish and Game

### <u>Arizona</u>

Department of Environmental Quality

### <u>Arkansas</u>

Department of Finance and Administration

### **California**

State Coastal Conservancy
San Francisco Bay Conservation and Development Commission
Department of Fish and Game

State Water Resources Control Board State Water Resources Control Board

#### Colorado

Department of Natural Resources

#### Connecticut

Department of Environmental Protection

Department of Environmental Protection

Department of Environmental Protection

#### Delaware

Department of Natural Resources and Environmental Control

#### Florida

Department of Environmental Protection

Department of Environmental Protection

#### Georgia

Department of Natural Resources

Department of Natural Resources

Department of Natural Resources

### <u>Idaho</u>

Division of Environmental Quality

#### **Kansas**

Department of Wildlife and Parks

### **Kentucky**

Natural Resources and Environmental Protection Cabinet

### Louisiana

Cooperative Extension Service

Department of Wildlife and Fisheries

Cooperative Extension Service

#### **Maine**

Department of Environmental Protection

Department of Inland Fisheries and Wildlife

Department of Economic and Community Development

### Department of Agriculture

### **Maryland**

Department of Natural Resources

#### Massachusetts

Department of Environmental Protection Department of Environmental Protection Division of Fisheries and Wildlife

#### Michigan

Department of Natural Resources

#### Minnesota

Pollution Control Agency

#### **Mississippi**

Department of Environmental Quality Department of Wildlife

### **Missouri**

Department of Natural Resources Department of Natural Resources Department of Conservation Department of Natural Resources

#### Montana

Department of Health and Environmental Science

### New Hampshire

Department of Environmental Services
Fish and Game Department
Office of State Planning
Office of State Planning
Department of Resources and Economic Development

### New Jersey

**Pinelands Commission** 

### New Mexico

**Environment Department** 

#### New York

Adirondack Park Authority
Department of Environmental Conservation

#### North Carolina

Division of Environmental Management Division of Environmental Management

#### North Dakota

State Water Commission/Game and Fish Department

#### **Ohio**

Ohio Environmental Protection Agency Department of Natural Resources

#### Oklahoma

Office of the Secretary of the Environment

#### Oregon

Division of State Lands
Department of Environmental Quality

### Pennsylvania

Department of Environmental Resources

### **Rhode Island**

Department of Environmental Management

### **Tennessee**

Department of Environment and Conservation Wildlife Resources Agency

#### **Texas**

Texas Parks and Wildlife Department
Texas Parks and Wildlife Department
Natural Resources Conservation Commission
Natural Resources Conservation Commission
General Land Office
Agriculture Extension Service

### <u>Utah</u>

### Governor's Office of Planning and Budget

#### Vermont

Department of Environmental Conservation Department of Fish and Wildlife

### Virginia

Department of Conservation and Recreation Department of Conservation and Recreation

### Washington

Department of Ecology/Department of Community Development

#### West Virginia

Department of Commerce, Labor and Environmental Resources Division of Environmental Protection

#### Wisconsin

Department of Natural Resources Department of Natural Resources

#### **Wyoming**

Department of Environmental Quality

**Bad River Band of Chippewa Indians** 

Confederated Salish and Kootenai Tribes of the Flathead Reservation

Confederated Tribes of the Umatilla Indian Reservation

Hopi Tribe

**Inter-Tribal Council of Michigan** 

Miccosukee Tribe of Indians of Florida

Narragansett Indian Tribe

Nez Perce Tribe

Pueblo of Acoma

Pueblo of Laguna

Red Lake Band of Chippewa Indians

Rincon San Luiseno Band of Mission Indians

Santa Clara Pueblo

Sisseton-Wahpeton Dakota Indians

Warm Springs Tribe

American Samoa

District of Columbia

Northern Mariana Islands

Republic of Palau

U.S. Virgin Islands

# INTRODUCTION TO CATALOG

The State/Tribal Wetlands Protection Grant Program began in fiscal year 1990 (FY90) with a \$1 million appropriation. Since then, Congress has responded to state and tribal interest in the grant program and increased the appropriation to \$10 million in fiscal 1994 (FY94). States and tribes usually request more than double the amount available for funding. For example, in FY94, 101 grants totaling \$10 million were awarded; 166 applications requesting \$22.5 million were received.

The first State/Tribal Wetlands Grant Catalog was created in 1991 for FY90. Since then, states, tribes, and other stakeholders use the catalog to see how other states and tribes have used their grant funds. The Index (in Appendix I) categorizes grants into topics such as biocriteria, geographic information systems, mitigation, watershed planning, and outreach/training. This helps the reader focus on those grants that are

in their areas of interest or need.

Hopefully, the information and contacts in this grant catalog will help potential grant applicants develop effective grant proposals, and will provide the public, in general, with information about the ongoing State/Tribal Wetland Grant Program.

Fiscal Year	Applications	Grants Awarded	\$\$\$ Available (millions)	\$\$\$ Requested (millions)
1990	50	23	1	3
1991	140	60	5	13
1992	157	80	8.5	17.5
1993	165	100	10	19
1994	166	91	10	22.5

# HIGHLIGHTS OF THE FY94 STATE/TRIBAL GRANTS PROGRAM

State/tribal interest and participation in the grant program continues to be enthusiastic. General themes of

the FY94 Grant Program were: (1) State/Tribal Wetland Conservation Plans; (2) integrated/cooperative programs between state agencies and others; (3) wetland water quality standards/401 water quality certification programs; (4) staff training; (5) wetlands and watershed protection projects; and (6) miscellaneous proposals (e.g., Clean Water Act Section 404 assumption, GIS database projects). Most proposals focused on local networking in environmental program planning and integration of resource functions among wetland management agencies and groups.

### **State and Tribal Wetland Conservation Plans**

Development of State/Tribal Wetland Conservation Plans (S/TWCP) received the most interest from states and tribes applying for grant funding in 1994. A S/TWCP provides a framework to identify both gaps in existing programs in protecting wetland resources and opportunities to make wetlands programs more effective. A S/TWCP provides focus for resource management resulting in wetland program improvement and often results in integration of regulatory and non-regulatory approaches to wetlands protection. S/TWCPs are flexible and can accommodate differing institutional conditions and capabilities existing among states and tribes. The following received funding for S/TWCP development or implementation of final, approved S/TWCPs: Alabama, California, Connecticut, Delaware, Kansas, Louisiana, Maine, Massachusetts, Michigan, Missouri, New Hampshire, New Jersey, Oregon, Rhode Island, Tennessee, Texas, Vermont, Virginia, Washington, West Virginia, U.S. Virgin Islands, District of Columbia, Nez Perce Tribe, Hopi Tribe, San Luiseno Band of Mission Indians, Sisseton-Wahpeton Dakota Nations, and the Warm Springs Tribe.

The State of Tennessee completed its Wetlands Conservation Strategy in 1993. In FY94, Tennessee received grant funds for implementing their Strategy. The Tennessee Department of Environment and Conservation is evaluating, field testing and implementing a Wetland Functional Assessment Methodology. The methodology procedures were developed by the Corp of Engineers and serve as a tool to evaluate the functions of hydrogeomorphic wetland categories. The study targets bottom land hardwood sites and wetland types dominated by herbaceous vegetation in west Tennessee. Final models will enable the state to quantify wetland functions, assess Clean Water Act Section 401 and permit compliance rates on mitigation sites, measure attainment of objectives in the Strategy, and test the criteria on Outstanding Resource Wetlands in Tennessee. In addition, the Tennessee Wildlife Resources Agency has begun work to: (1) identify and import relevant data sets into the state GIS, (2) initiate work on a digital soils data set for the state GIS, (3) initiate a program to digitize remaining soils data, (4) test hydric soils as a predictor of successful wetland restoration, (5) document the status of the state's wetlands, and (6) initiate a program to define the major functions provided by the state's wetlands.

The State of California completed its State Wetlands Conservation Policy in 1992. California continues to receive grant funds to implement the recommendations of its Policy. As implementation of the Policy, the California Department of Fish and Game initiated an inventory of wetlands. The project involves a statewide analysis of wetlands using satellite imagery incorporating the inventory data into a GIS database. In another implementation project, the State Water Resources Control Board is developing a

Regional Wetlands Management Plan and options for assuming part of the Section 404 permit program in the San Francisco Bay area. This pilot assumption project is applicable to other areas in the state.

The Sisseton-Wahpeton Dakota Nation is developing a Tribal Wetland Conservation Plan. With the assistance of the Natural Resources Conservation Service and the U.S. Fish and Wildlife Service, the tribe has utilized existing wetland data to inventory wetland resources. The tribal goal is to identify priority wetlands on the reservation for protection.

### Integrated Planning Among State, Federal, and Private Partnerships

States and tribes placed increased emphasis in 1994 on integrated, interdisciplinary wetland management programs. States and tribes used Watershed Protection Approaches to involve federal, state, and local stakeholders in comprehensive wetland protection and resource management. Partnerships between government, private, and nonprofit wetland managers foster an effective framework whereby shared stakeholder commitments for wetland protection generate desirable ecological results and reduce duplication of managerial tasks. The following states and tribes received funding for integrated planning projects: Arkansas, Florida, Georgia, Maryland, Missouri, New Hampshire, New York, North Carolina, North Dakota, Oklahoma, Confederated Tribes of the Umatilla Indian Reservation, Narragansett Indian Tribe, Pueblo of Acoma, and the Pueblo of Laguna.

The Missouri Department of Natural Resources is developing water quality standards for wetlands to complement its work to develop standard mitigation guidelines and banking rules for the state. The project goals are components of the Goals and Recommendations in the Missouri State Wetland Conservation Plan.

The Oklahoma Office of the Secretary of Environment is developing a management plan for riparian wetlands. The program includes developing policy for riparian area management, establishing technical guidelines for riparian protection measures, and creating and testing a system to prioritize riparian areas for management, rehabilitation, and protection. Partnerships are being established between state and federal agencies, private landowners, and environmental groups.

The Pueblo of Acoma is developing a comprehensive plan for the management, enhancement and creation of wetland areas on the reservation. The project management activities are being coordinated with other tribal programs such as range management, forestry, fish and wildlife management, agricultural and recreational programs. The mission of the Wetlands Protection Plan is the integration of all tribal natural resources management activities into a focused, consolidated effort.

# Wetland Water Quality Standards and 401 Water Quality Certification

States and tribes continue to develop wetland water quality standards and enhanced water quality certification programs. Those receiving funding for these activities included Colorado, Kentucky, Ohio, Maine, Minnesota, Missouri, New York, Louisiana, Texas, and the Miccosukee Tribe of Indians of Florida.

The Kentucky Natural Resources and Environmental Protection Cabinet is developing and maintaining a computerized database tracking system for its Clean Water Act Section 401 Water Quality Certification (WQC) Program. The goal is to design a database system to track WQC information such as certification status, Corps of Engineers permit types, expiration dates, compliance, enforcement and violations. Accountability of water quality parameters obtained by the system should expedite assessments of wetlands and streams within the state.

The Texas Natural Resources Conservation Commission is establishing a database of wetland water quality parameters with emphasis on specific ecotypes. The goal is to determine the effectiveness of wetland specific water quality standards for wetland protection. In addition, the project is evaluating the applicability and variability of wetland-specific water quality parameters in Texas and how the information can be utilized to protect ecologically valuable tidal wetlands.

The Miccosukee Tribe is developin wetland water quality standards through a monitoring regime on a substantial tract of reservation acreage in south Florida. The objective of the sampling effort is to establish potential indicators.

# Training Programs for State Staff

Several states received funding to train agency personnel in recognizing wetland values and more effectively managing for wetlands protection. The training activities are directed toward field staffers or to "train the trainer" workshops. States and territories participating in training programs included Florida, Georgia, Mississippi, Texas, the Commonwealth of the Northern Mariana Islands, and the Republic of Palau.

The Georgia Coastal Resources Division of the Georgia Department of Natural Resources (DNR) has established a Wetlands Training and Technical Support Program. The program involves a two-part training scheme. DNR conservation officers are being trained: (1) to recognize and report violations of current federal and state regulatory laws and permits and (2) to present training materials to the general public, academic community, and local governments.

The Texas Agriculture Extension Service received funding to conduct in-service training workshops targeting state staff. Specific program objectives are: (1) the development of a wetlands protection handbook and slides to be used by state staffers to educate farmers on the best management practices of wetlands and (2) to host in-service training workshops for staff on wetland protection management practices that farmers can implement on farmlands.

Wetlands staff on the Environmental Quality Protection Board of the Republic of Palau are attending a wetland delineation course. Palau is developing wetland protection laws and regulations and agency staff are being trained on the implementation of environmental policies. Staff from the Commonwealth of the Northern Mariana Islands are attending wetlands delineation training in Guam.

### Watershed Protection Programs

States and tribes continue to endorse the Watershed Protection Approach. The objective of this approach is to address natural resource protection in a holistic, integrated manner. This can be accomplished by a geographically targeted approach so that federal, state, tribal and local decision-makers can cooperatively focus resources son highest priorities, tailor efforts to the identified needs, and coordinate and engage all appropriate participants. States and territories organizing these approaches with the assistance of grant funding include Idaho, Mississippi, West Virginia, Wisconsin, Pennsylvania, and American Samoa.

The Mississippi Department of Environmental Quality is developing a basin-wide wetlands management strategy and wetlands restoration plan for the Lower Yazoo River Basin. The project is being done in partnership with The Nature Conservancy and private landowners. A basin-wide biodiversity assessment is being developed with ecological data incorporated into a GIS database.

The Idaho Division of Environmental Quality in partnership with the Idaho Department of Health and Welfare and the Idaho Department of Fish and Game is developing a watershed protection plan for the Henry's Fork watershed. The state is developing the sampling expertise to collect and use data to protect wetlands on a watershed basis in future projects.

The American Samoa Environmental Protection Agency is developing a watershed protection program for the Leone Pala wetland area. The plan addresses wetland functions and values leading to protection efforts while considering the economic and cultural ramifications and benefits to the local village. The watershed plan is being implemented in partnership with the village.

### Other Projects

States, tribes, and territories received funding for a diverse group of projects in 1994, including the development, testing, and implementation of wetland classification schemes, outreach activities, and Section 404 assumption assistance.

The Texas Natural Resource Conservation Commission is collecting and analyzing insect, plant, and water chemistry data from 30 wetland areas. These data are being used in the evaluation of mitigation projects. These wetland areas represent the six biotic provinces in Texas.

The Red Lake Band of Chippewa Indians is developing expertise in regulatory and advanced planning

aspects of a wetlands protection program. The tribe is disseminating outreach material and providing technical assistance to other Minnesota tribes on wetland delineation, wetlands regulations, and guidance in the development of individual tribal wetlands ordinances or conservation plans.

The Inter-Tribal Council of Michigan (MITC) is providing wetlands technical assistance to the Bay Mills Indian Community with the intention of expanding this assistance to all Michigan tribes. MITC is determining the specific needs of each tribe and working with the federal agencies to provide technical information and wetland management assistance. MITC's goal is to develop wetland management strategies including identification, preservation, and management for all the Michigan tribes that request their assistance.

### **Grant Trends**

State Wetlands Development Grants awarded in 1994 were multi-faceted and multi-agency oriented. States, territories, and tribes focused on streamlined, watershed approaches involving all stakeholders in local wetland issues and potential solutions. In many examples, the more comprehensive projects were supported by multiple state agencies, nonprofit conservation groups such as The Nature Conservancy, and local governments. Grant projects emphasized conservation strategies for specific wetland acreage, assessment and biosurvey approaches of wetland systems, consolidated database information systems of wetlands permitting, wetlands mappings, biological inventories and wetland classification schemes, public outreach activities, and staff training activities.

Grant projects identified the need to involve the private sector in partnerships focused on wetland conservation. States are working to eliminate costly duplication of wetland protection efforts by endorsing pragmatic, integrated strategies with joint commitments from state, local, and tribal governments, as well as the private sector.

### **HEADQUARTERS SET ASIDE**

Each year, EPA's Wetlands Division retains a portion of the grant funds in a Headquarters "set aside." In FY94, \$1 million was retained. These funds were intended to support and supplement Regionally identified projects of particular merit. Projects funded from the Headquarters set aside are often creative, important projects that demonstrate comprehensive, integrated approaches to wetlands management from a geographic, programmatic and inter-governmental perspectives. These projects provide states/tribes with opportunities to provide national direction and leadership to other states and tribes. The states/tribes that were selected for funding from the Headquarters set aside were:

- Alaska Department of Fish and Game
   Lower Chena River Watershed Protection Plan
- California State Water Resources Control Board

  Implementation of CWA 404 "Pilot Project" in the San Francisco Estuary
- Chugachmiut Tribe

Chugach Region Tribal Wetlands Conservation Planning Project

- Florida Department of Environmental Protection South Florida Wetlands Resource Management
- Michigan Department of Natural Resources
  Improving Wetlands and Watershed Management in Michigan
- Missouri Department of Conservation Missouri River Post-Flood Evaluation
- New York Department of Environmental Conservation

  Development of Narrative Water Quality Standards for Wetlands in New York State
- Oglala Sioux Tribe

  Development of Wetland Conservation Strategy for the Oglala Sioux Tribe
- Tennessee Department of Environmental and Conservation

  Development of Wetlands Priority Lists for Restoration and Acquisition; Development of Criteria

  Predicting Restoration Success
- Washington Department of Ecology Wetlands Functional Assessment Method
- White Mountain Apache Tribe Tribal Wetlands Conservation Plan

# **ALABAMA**

TITLE: Alabama Coastal Wetlands Initiative

AGENCY: Alabama Department of Environmental Management

1751 Congressman W.L. Dickinson Dr.

Montgomery, AL 36130

CONTACT: Timothy S. Forester

(205) 271-7839

FUNDING: Total project \$201,424

EPA funding 155,253 State match 47,929 The Alabama Coastal Wetlands Initiative is developing and testing a coastal wetlands functional assessment methodology for use in program management decisions. The objectives are to provide greater predictability and consistency in permit decisions, justify preservation of highly functional coastal wetlands, and develop a rational wetland impact analysis process. The project involves digitizing National Wetland Inventory maps and other related data in Alabama's two coastal counties and then incorporating this into a multi-agency cooperative geographic information system.

# **ALASKA**

TITLE: Kenai River Watershed Conservation Project--Phase II

AGENCY: Alaska Department of Fish and Game

Habitat and Restoration Division

333 Raspberry Road

Anchorage, AK 99518-1599

CONTACT: Gay Muhlberg

(907) 267-2284

FUNDING: Total project \$64,769

EPA funding 51,815 State match 12,954

In phase-two of a two phase public/private partnership project to protect valuable lands in the Kenai Watershed, the Department of Fish and Game and The Nature Conservancy are identifying funding for watershed conservation efforts and conducting public workshops to encourage cooperative efforts for resource protection in the Kenai River watershed.

# **ARIZONA**

TITLE: Arizona Wetlands Program Development

AGENCY: Arizona Department of Environmental Quality (ADEQ)

Office of Water Quality

3033 North Central Avenue

Phoenix, AZ 85012

**CONTACT:** Brian Munson

(602) 207-2303

FUNDING: Total project \$129,949

EPA funding 96,021 State match 33,928 ADEQ is acquiring information on Corps of Engineers Section 404 permits. The information is being reviewed, formatted, and installed into ADEQ's Geographic Information System. The information is: (1) being used in the analysis, evaluations, and determinations of Clean Water Act Section 401 water quality certifications; (2) allowing for assessment of cumulative impacts of activities in wetlands and watersheds; and (3) providing valuable information for development of a State Wetlands Conservation Plan.

# **ARKANSAS**

TITLE: Arkansas Wetland Strategy--St. Francis/Boeuf-Tensas

AGENCY: Department of Finance and Administration

PO Box 2485

Little Rock, AR 72203

CONTACT: Shelby McCook

(501) 324-9057

FUNDING: Total project \$178,504

EPA funding 79,500 State match 81,004

Arkansas is developing a wetland strategy for the delta region of Arkansas, including the Boeuf-Tensas, Lower White River, and areas of the Mississippi River Watersheds and Bayo Bartholomew. These data are being incorporated with data from all participating agencies to develop a wetland strategy.

# **CALIFORNIA**

TITLE: Santa Ynez River Watershed Comprehensive Enhancement

and Management Plan

AGENCY: State Coastal Conservancy

1330 Broadway, Suite 1100

Oakland, CA 94612

CONTACT: Reed Holderman

(510) 286-4183

FUNDING: Total project \$300,000

EPA funding 100,000 State match 100,000

Other 100,000

The Coastal Conservancy is developing a wetlands/watershed enhancement/management plan for the Santa Ynez River in Santa Barbara County. This project addresses water quality, flooding, ground water recharge, wildlife, and recreational concerns within the 900 square mile watershed. Presently, there is no comprehensive plan for the main river corridor. This effort builds on previous assessments and brings together landowners, water managers, the U.S. Forest Service, wastewater dischargers, flood control districts, local governments, federal and state regulatory agencies, and others to address and resolve issues and conflicts affecting the river.

TITLE: North Bay Special Area Plan, Phase I

AGENCY: San Francisco Bay Conservation and Development Commission

30 Van Ness Avenue, Suite 2011

San Francisco, CA 94102 CONTACT: William Travis

(415) 557-3686

FUNDING: Total project \$200,000

EPA funding 150,000 State match 50,000

This project builds on the North Bay Initiative--a cooperative effort to coordinate resource protection activities within San Francisco's North Bay area. This project is developing a Special Area Plan to guide the use, protection, restoration, and development of wetlands, diked historic baylands, and other open space lands bordering the northern shoreline of San Pablo Bay, one of three major embayments within San Francisco Bay. The Special Area Plan will be used to achieve the objectives of the Regional Management Plan for the North Bay being developed through the North Bay Initiative and will take advantage of the partnerships with other state agencies, federal agencies, and private interests in planning the North Bay effort.

TITLE: Statewide Identification and Analysis of Wetlands

Resources, Phase II

AGENCY: Department of Fish and Game

1416 Ninth Street Sacramento, CA

CONTACT: Scott A. Flint

(916) 445-5758

FUNDING: Project total \$191,448

EPA funding 150,000 State match 41,448

In 1992, the Department of Fish and Game initiated an inventory of California's wetlands for the State Wetland Conservation Policy. The Department revised its approach for this inventory and decided to create a GIS database that organizes several data sources into one location. Initial wetlands mapping is being done for three key regions in California using satellite imagery and reconciled with field reconnaissance. This project expands the inventory statewide and performs a statewide analysis of the

wetland resources for conservation, protection, and management planning as outlined in the State Wetlands Conservation Policy.

TITLE: Implementation of the Regional Wetlands Management Plan, Part 2

AGENCY: State Water Resources Control Board California Regional Water Quality Control Board

San Francisco Bay Region

2101 Webster Street, Suite 500

Oakland, CA 94612

CONTACT: Michael Carlin

(510) 286-1255

FUNDING: Total project \$435,787

EPA funding 200,000 State match 235,787

A major initiative of the California Wetlands Conservation Policy is development of a wetlands regulatory pilot project in the San Francisco Bay Area. The Regional Board is developing a Regional Wetlands Management Plan including options for assuming the Section 404 permit program. The Regional Board is implementing the pilot project and analyzing the pilot's success and applicability to other parts of the state.

TITLE: Development of Specific Plans and Policies to Avoid

or Mitigate the Impacts of Future Development in

Certain Mono County Wetlands

AGENCY: State Water Resources Control Board California Regional Water Quality Control Board

2092 Lake Tahoe Blvd.

South Lake Tahoe, CA 96150

**CONTACT: Cindy Wise** 

(916) 542-5408

FUNDING: Total project \$144,568

EPA funding 82,770

State match 42,938

Other 18,860

The Regional Board is working with local county agencies to develop/implement a coordinated regulatory program to protect and preserve the wetland functions and values of Long Valley and June Lake. The Regional Board provides funds toward development of detailed wetland maps in Bridgeport Valley in Mono County. Regional Board staff are working with agencies to develop a Special Area Management Plan and Regional General Permit for this area which will then be incorporated into the Regional Board's Basin Plan. The June Lake/Long Valley area is targeted as the next focus in the development of the Mono County wetlands program. The project includes the identification of wetlands and development of specific policies to avoid or mitigate the impacts of future development on wetlands.

# **COLORADO**

TITLE: Enhancement of Colorado's Wetlands Programs

**AGENCY: Department of Natural Resources** 

1313 Sherman, Room 718

Denver, CO 80203

CONTACT: Doug Robotham

(303) 866-4901

FUNDING: Total project \$248,279

EPA funding 198,623 State match 49,656

Colorado is working on five wetland issues:

- (1) Water quality guidelines for wetlands associated with mining, using best management practices.
- (2) Wetland enhancement using artificial groundwater recharge.
- (3) Evaluation of pollution and related water issues affecting wetlands.
- (4) Riparian classification from a watershed approach.
- (5) Inventory of Colorado State Parks wetlands and development of management criteria for these wetlands.

# CONNECTICUT

TITLE: Coastal GIS System and Database

AGENCY: Department of Environmental Protection

Office of Long Island Sound Programs

79 Elm Street

Hartford, CT 06106-5127 CONTACT: Art Rocque

(203) 566-3740

FUNDING: Total project \$38,540

EPA funding 28,000 State match 10,540

The Office of Long Island Sound Programs is developing a spatial GIS database of previously issued coastal permits throughout the Long Island Sound Watershed (40 towns), allowing for rapid retrieval of salient permit information such as the location and types of activities authorized, and the rapid identification of illegal activities and initiation of enforcement activities by DEP. This project is resulting in increased wetland protection through timely enforcement actions and cumulative impact assessments of various activities in coastal wetland areas. Future uses of data include pollution reduction efforts such as evaluating the impact of proposed storm water discharges upon wetlands and water quality.

TITLE: Comprehensive Plan: Phase III of Soils Mapping Project

AGENCY: Department of Environmental Protection

Inland Wetlands Program State Office Building

79 Elm Street

Hartford, CT 06106

**CONTACT:** Doug Cooper

(203) 566-7280

FUNDING: Total project \$136,445

EPA funding 100,000 State match 36,455

DEP and the Soil Conservation Service are working jointly to complete Connecticut's state-wide soils mapping efforts. When finalized, these maps will be used in the development of Connecticut's State Wetlands Conservation Plan. Updated soils maps are fundamental to the day-to-day regulatory work carried out by DEP; therefore, updated soils maps will result in improved wetlands regulation and protection.

TITLE: Identification and Protection of Globally Significant Wetland Communities in Connecticut

AGENCY: Department of Environmental Protection

Natural Resources Center

79 Elm Street

Hartford, CT 06105-5127

CONTACT: Richard C. Hyde

(203) 566-3540

FUNDING: Total project \$25,497

EPA funding 18,480 State match 7,017

Protection of calcareous wetlands and Atlantic white cedar swamps is a high priority in Connecticut and New England. This project defines the classification of these two natural communities and enhance the identification and protection of these unusual and important communities. Products include maps and reports of the study's findings to be used by local, state and federal groups in environmental regulatory actions and protection planning efforts. Work conducted during this project adds to the comprehensive study ongoing throughout New England by the state natural heritage programs in cooperation with The

# **DELAWARE**

TITLE: Improving Delaware's Wetland Protection Efforts Through Select Wetlands Mapping

AGENCY: Department of Natural Resources and Environmental Control

Division of Water Resources

Surface Water Management Section

89 Kings Highway, P.O. Box 1401

Dover, DE 19903

CONTACT: Robert J. Zimmerman

(302) 739-5726

FUNDING: Total project \$50,762

EPA funding 40,000 State match 10,762

This project ensures that all tidal wetlands in the state subject to the jurisdiction of Delaware's Wetlands Act have been properly delineated on the revised Wetlands Maps adopted by the Department in September 1992. The state is conducting the field verification necessary to identify interdunal swale freshwater wetlands preliminarily mapped from aerial interpretation, thus providing a database which identifies Delaware's unique wetland community types, is being conducted. The state is working to integrate the tidal and overall statewide wetlands mapping initiatives.

# **FLORIDA**

TITLE: Florida Wetlands Management Computer System Integration and Implementation AGENCY: Florida Department of Environmental Protection (DEP) 2600 Blair Stone Road Tallahassee, FL 32399-2400 CONTACT: James Stoutamire (904) 488-0130 FUNDING: Total project \$299,987 EPA funding 224,990 State match 74,997

This project builds on the pilot project which developed and tested a mechanism to integrate the DEP and the five regional water management districts' computerized permit processing, compliance, enforcement tracking, and wetlands data base management systems by integrating the systems. An integrated system will provide for real time access to other data systems for selected data sets and implement data exchange standards and techniques for other critical wetlands data sets. The final product will be a working data exchange mechanism between the DEP and the Southwest Florida and the St. Johns River Water Management Districts.

TITLE: Development and Implementation of a Comprehensive Staff Training Program for Wetlands

Management in Florida

AGENCY: Florida Department of Environmental Protection (DEP)

2600 Blair Stone Road

Tallahassee, FL 32399-2400 CONTACT: James Stoutamire

(904) 488-0130

FUNDING: Total project \$112,348

EPA funding 89,879 State match 22,469

Florida is consolidating its wetlands permitting programs by implementing a streamlined Environmental Resource Permit with DEP and the five regional water management districts. DEP is developing and implementing a comprehensive training program that addresses the needs of the permitting, enforcement, compliance, and wetland delineation staff as a step towards implementing this new process. Training materials are being developed for DEP and the water management districts. DEP is (1)evaluating the effectiveness of the training program and developing recommendations for long-term training; (2) using the training program as a tool to identify areas of the new wetlands programs that should be refined; and (3) training staff in the new programs so that they will be knowledgeable if the state assumes the Section 404 program.

# **GEORGIA**

TITLE: Georgia Coastal Resources Division -- Georgia Wetlands Training and Technical Support

Program

AGENCY: Department of Natural Resources (DNR)

**Coastal Resources Division** 

One Conservation Way

Brunswick, GA 31523-8600 CONTACT: Philip Flourney

(912) 264-7218

FUNDING: Total project \$185,680

EPA funding 146,876 State match 37,136

This project is improving Georgia's wetlands management through the development of a two-part, inservice training program. DNR conservation officers are being trained to recognize and report violations of current federal and state regulatory laws and permits. The project also "trains-the-trainers" by providing the conservation officers with a wetlands training program. Materials are being disseminated throughout the state to the general public and the educational community. Coastal Resources Division staff are providing training on the ecological value of wetlands and wetlands protection techniques to local government officials and educators in the Georgia coastal counties. Funds are also being provided to complete digitization of National Wetland Inventory maps in the coastal Georgia counties.

TITLE: Development of a Joint General Permit

AGENCY: Georgia Department of Natural Resources

**Coastal Resources Division** 

One Conservation Way

Brunswick, GA 31523-8600

CONTACT: Philip Flourney

(912) 264-7218

FUNDING: Total project \$65,067

EPA funding 52,000 State match 13,067

The Department of Natural Resources is working with the Environmental Protection Division, the Coastal Resources Division, the Corps of Engineers, and the U.S. Environmental Protection Agency to develop a State Program General Permit. This project is developing a draft joint General Permit and guidelines for the permit review process for the 11 coastal counties.

TITLE: Development and Production of Georgia Wetlands/Land Cover Map and a Description

Handbook of Georgia Wetlands Communities

AGENCY: Georgia Department of Natural Resources

Wildlife Resources Division

Georgia Natural Heritage Program

2117 US Hwy. 278, SE Social Circle, GA 30279

CONTACT: Dr. John Bozeman

(404) 918-6411

FUNDING: Total project \$97,402

EPA funding 73,051 State match 24,351

This project is developing training materials for agency personnel involved in wetland protection activities throughout Georgia. The materials consist of a large-format state wetlands/land cover map and a descriptive handbook of Georgia's wetland communities. The map and handbook enhance the ability of the state to protect wetlands by providing critical information to field personnel.

# **IDAHO**

TITLE: Watershed Protection for the Henry's Fork Watershed

AGENCY: Idaho Division of Environmental Quality

1410 North Hilton Boise, ID 83706

CONTACT: Phil Bandy

(208) 334-0439

FUNDING: Total project \$250,000

EPA funding 190,000 State match 60,000

The state is developing the capacity to collect and use data to protect wetlands on a watershed basis and to develop a watershed protection plan for the Henry's Fork watershed. This is a cooperative effort between the Idaho Department of Health and Welfare and the Idaho Department of Fish and Game.

# **KANSAS**

TITLE: Wetland and Riparian Areas Project IV--KDWP Implementation

AGENCY: Kansas Department of Wildlife and Parks

Route 2, Box 54A

Pratt, KS 67124

CONTACT: Charlie Lee

(913) 532-5734

FUNDING: Total project \$123,245

EPA funding 97,489 State match 25,756

An interagency work group developed Kansas wetland and riparian resource management goals and strategies with a previous EPA grant. This project implements strategies that will develop an "ecosystem" approach to wetland and riparian area conservation and management. The objectives of the project are:

- (1) Develop and implement an ecosystem approach to wetland and riparian area conservation in Kansas.
- (2) Identify ecosystems (i.e., "megasites") of concern and focus project efforts on those specific ecosystems.
- (3) Promote interagency and public awareness and understanding of those ecosystems.
- (4) Develop an evaluation system to quantify "on-the-ground" conservation efforts.
- (5) Develop a system to evaluate the success of agency-recommended Best Management Practices for wetland and riparian resources and present "feedback" on those implementing BMP's.

# **KENTUCKY**

TITLE: Computerized Database Tracking System Section 401 Water Quality Certification Program

AGENCY: Kentucky Natural Resources and Environmental Protection Cabinet

Division of Water

14 Reilly Road

Frankfurt, KY 40601

CONTACT: Jack A. Wilson

(502) 564-3410

FUNDING: Total project \$76,021

EPA funding 57,016 State match 19,005

Kentucky is developing a computer database tracking system for the Section 401 water quality certification program to make the existing program more effective. The system tracks WQC information,

such as certification status, Corps permit type, expiration dates, compliance, enforcement and violations. The database accounts for acreage of wetland impact, wetland type, acreage of mitigation, and success rate of mitigation. An accounting system provides an assessment of cumulative impacts to wetlands and streams, and facilitate Section 305(b) reporting. The database system should result in better coordination and communication of compliance and enforcement between the state and federal agencies.

# LOUISIANA

TITLE: Wetland Reserve Program Outreach AGENCY: Louisiana Cooperative Extension

PO Box 25100

Baton Rouge, LA 70894-5100

**CONTACT: Paul Coreil** 

(504) 388-2266

FUNDING: Total project \$36,931

EPA funding 29,500 State match 7,431

Louisiana Cooperative Extension is developing a wetland Reserve Program educational video. The video will be available to Cooperative Extension Service offices throughout the United States for use in landowner/farmer-oriented educational programs.

TITLE: Riverine and Riparian Wetland Protection Program

AGENCY: Department of Wildlife and Fisheries

2000 Quail Dr.; P.O. Box 98000 Baton Rouge, LA 70898-9000 CONTACT: M.B. Watson

(504) 765-2642

FUNDING: Total project \$82,200

EPA funding 61,650 State match 20,550

The state is developing at least six river/riparian wetland management plans and identifying sellers and landowners interested in negotiating riparian protection agreements.

TITLE: Lower Mississippi River Delta Outreach Initiative

AGENCY: Louisiana Cooperative Extension Service

PO Box 25100

Baton Rouge, LA 70894-5100

**CONTACT:** Paul Coreil

(504) 388-2266

FUNDING: Total project \$67,053

EPA funding 53,527 State match 13,526

The Louisiana Cooperative Extension Service is developing a regional Delta Extension education and outreach initiative that encompasses the Mississippi River watershed in northeast Louisiana. Special emphasis is being placed on private landowner awareness of wetland enhancement initiatives in the region.

# **MAINE**

TITLE: Incorporate Permit Data into GIS Tracking System AGENCY: Department of Environmental Protection (DEP)

Bureau of Land Quality Control

312 Canco Road Portland, ME 04103

CONTACT: Kathy Jensen

(207) 287-7815

FUNDING: Total project \$93,665

EPA funding 74,930 State match 18,735

DEP is entering individual permit application data onto the state GIS system. Development of this GIS database of past and pending wetland permit decisions should aid DEP in making more informed regulatory decisions concerning direct, indirect and cumulative impacts. DEP is using this GIS database to assess the cumulative impacts of permitted projects and developing a compliance tracking program to assist in targeting areas for inspection

TITLE: Assessment and Protection of Vernal Pools

AGENCY: Department of Inland Fisheries and Wildlife (MEDIFW)

284 State Street, State House Station #41

Augusta, ME 04333

CONTACT: Mark McCollough

(207) 941-4475

FUNDING: Total project \$56,250

EPA funding 45,000 State match 11,250

Currently, wetland losses in Maine are greatest in small wetlands, including vernal pools. Vernal pools are protected under the Maine Endangered Species Act and the Natural Resources Protection Act (NRPA). MEDIFW is conducting a two-year study to develop techniques to quantify wildlife use of vernal pools and to document use of vernal pools by wildlife, particularly endangered species. The importance of small wetlands to the total wetland area/landscape is being assessed. A model is being

developed for predicting amphibian, reptile, and threatened and endangered wildlife values associated with vernal pools in southern Maine. Maps and rules needed to implement Essential Habitat provisions of the Maine Endangered Species Act and/or Significant Wildlife provision of NRPA are being drafted.

TITLE: Biodiversity Assessment of Forested Wetlands

AGENCY: Department of Economic and Community Development

Natural Areas Program

219 Capitol Center, Station 130

Augusta, ME 04333

**CONTACT:** Susan Gawler

(207) 624-6807

FUNDING: Total project \$64,857

EPA funding 46,607 State match 18,250

The Maine Natural Areas Program is developing a model approach for assessing the biological significance of deciduous- forested wetlands by combining intensive investigations of rare features within those wetlands with extensive investigations of the forested wetland types throughout southern Maine. Deciduous- forested wetland in southern Maine are being inventoried and quantified to better characterize the variation within and between natural community types. This information is being distributed to local, state and federal regulatory agencies.

TITLE: Non-wetland Cranberry Bog Assessment, Phase II

AGENCY: Department of Agriculture

Food and Rural Resources

Deering Building, State House Station #28

Augusta, ME 04333-0028 CONTACT: John Harker

(207) 287-7618

FUNDING: Total project \$82,000

EPA funding 53,000 State match 29,000

This study is determining whether upland production of cranberries can be environmentally and economically feasible. This study will encompass ground and surface water monitoring, plant growth and development, and water resource utilization. The study also includes an economic analysis of engineering designs. If successful, this project will result in reduced need for cranberry bogs to be built in wetlands. The intent of this project is to improve wetland protection in New England by determining best management practices for cranberry production on non-wetland soils.

# **MARYLAND**

TITLE: Development of Management Recommendations for Nontidal

Wetlands of Special State Concern

AGENCY: Department of Natural Resources

Water Resources Administration

Nontidal Wetlands and Waterways Division

Tawes State Office Bldg. E-2

Annapolis, MD 21401

**CONTACT:** Jeffrey Thompson

(410) 974-2265

FUNDING: Total project \$87,722

EPA funding 64,559 State match 23,163

Documents that provide detailed descriptions and management recommendations for most designated nontidal wetlands of special state concern and their 100-foot buffer are being developed. Special emphasis is being placed on Zekiah Swamp, an area estimated to be over 17,000 acres in size, and considered to be one of the most significant natural areas on the east coast by the Smithsonian Institution and the most important area in the Chesapeake Bay region. Detailed management recommendations, species inventories, and best management practices for protecting and restoring wetlands functions after logging are needed in order to adequately protect Zekiah Swamp.

# **MASSACHUSETTS**

TITLE: "Circuit Rider" Targeted Outreach to Conservation Commissions

AGENCY: Department of Environmental Protection (DEP)

Division of Wetlands and Waterways

One Winter Street Boston, MA 02203

CONTACT: Gary Gonyea

(617) 556-1152

FUNDING: Total project \$118,000

EPA funding 94,400 State match 23,600

A recent survey of conservation commissions in Massachusetts indicate that towns need expert state support to answer project- specific environmental and legal questions and to provide assistance with compliance, monitoring and enforcement efforts to help strengthen wetlands protection efforts. DEP is hiring a technical outreach specialist to provide direct assistance to conservation commissions and to foster communication between communities. DEP is also hiring a Program Coordinator to develop the program, organize community meetings with the Technical Outreach Specialist, and run a Wetland Information Hotline. The goal of this project is to provide direct assistance to conservation commissions to enhance their technical skills and regulatory understanding, and to provide commissioners with a

reliable and consistent avenue to direct their wetlands questions. If this pilot project is successful, DEP will consider adopting it as a regular part of their wetlands program.

TITLE: Evaluation of Boundary Delineation Field Methodologies

AGENCY: Department of Environmental Protection

Division of Wetlands and Waterways

One Winter Street Boston, MA 02203

CONTACT: Gary Gonyea

(617) 556-1152

FUNDING: Total project \$25,000

EPA funding 20,000 State match 5,000

DEP is determining what delineation methods are currently employed by conservation commissioners state-wide and the relative success of these methods. This information is being used to make decisions regarding adoption of a state methodology.

TITLE: Identification and Classification of Floodplain Forests

AGENCY: Division of Fisheries and Wildlife

Natural Heritage and Endangered Species Program

100 Cambridge Street

Boston, MA 02202

CONTACT: Patricia Swain

(617) 727-9194

FUNDING: Total project \$69,198

EPA funding 51,508 State match 17,690

This project is quantifying and better protecting floodplain forest, a high priority community type in Massachusetts and New England. Data on floodplain forests are being obtained from a large number of plots from a wide variety of rivers across the state to determine varieties and ranking of types of the region.

This information is enhancing the Natural Heritage Program (NHP) and other state departments' efforts to identify and protect unusual and exemplary communities within the different regions of Massachusetts. The site identification and rankings of exemplary floodplain communities is leading to acquisition and protection through environmental review. Locations of exemplary sites are being mapped and entered into the database maintained by NHP, as well as published in the State's Atlas of Priority Habitats--a reference used by developers and regulators alike. Any project planned within one of these habitats requires NHP review for possible impact on rare wetlands habitat.

# **MICHIGAN**

TITLE: Wetlands Protection State Development Grant Program

AGENCY: Michigan Department of Natural Resources

Stevens T. Mason Building

P.O. Box 30028

Lansing, MI 48909

**CONTACT:** Peg Bostwick

(517) 335-3470

FUNDING: Total project \$406,848

EPA funding 325,478 State match 69,886 Other 11,484

- (1) Procedures for Stormwater Discharge Review and Coordination. Michigan is developing a method for reviewing proposed stormwater discharges to wetlands -- guidance development, cross-program training, and coordination procedures.
- (2) Volunteer Wetland Monitoring in the Grand Traverse Bay Watershed. Volunteers are monitoring wetlands in the Grand Traverse Bay watershed to evaluate physical, biological and chemical condition and to determine their functions. The results are being used to designate wetlands for protection from development and storm water discharges, to fulfill the goals of the watershed protection initiative. The project is engaging volunteers associated with land conservancies who are currently monitoring lakes and streams in the watershed. GIS base maps are being used as a foundation for the monitoring program.
- (3) Enhancement of Wetland Information Data Base. This project is consolidating several wetland data bases housed in various agencies and organizations into MDNR's GIS system.
- (4) Comparing Presettlement and Current Wetland Acreage by County. The Michigan Natural Features inventory produces digital maps of statewide presettlement landscapes using General Land Office surveys from the 1800's. Historic wetland acreage by type is being calculated from the maps and compared to present acreage to determine wetland loss.
- (5) Identification of Critical Small Non-Contiguous Wetlands.

This project is identifying all "critical" wetlands that are not contiguous with surface waters. Under state statute, critical wetlands are those having resource values important to state and federally listed plant and animal species, species of an identified regional importance, and rare and high quality natural communities.

(6) Property Owners Guidebook to Wetlands. MDNR, with a local watershed council, is developing a handbook targeted to individual landowners. The handbook includes information on wetland functions and values that benefit the landowner, wetland regulations, voluntary binding and non-binding protection

techniques, state and federal incentive programs, accepted wetland management techniques, and ecologically sound methods of enhancing wetlands.

# **MINNESOTA**

**TITLE:** Biological Wetland Assessments

AGENCY: Minnesota Pollution Control Agency

520 Lafayette Road St. Paul, MN 55155

**CONTACT: Mark Gernes** 

(612) 297-3363

FUNDING: Total project \$321,080

EPA funding 240,810 State match 80,270

Minnesota is developing and testing biological wetland assessment methodologies to evaluate wetland conditions with respect to designated aquatic life use, within priority watersheds. A minimum of two assessment protocols are being developed. The three primary objectives are:

- (1) establish methods to assess wetland designated uses including aquatic life use;
- (2) assess wetlands within priority watersheds and compare them to a reference condition, and
- (3) integrate wetland assessment information into wetland management decisions.

# **MISSISSIPPI**

TITLE: Watershed Protection Project for Lower Yazoo Basin

AGENCY: Mississippi Department of Environmental Quality (DEQ)

**Bureau of Pollution Control** 

PO Box 10385

Jackson, MS 39209

CONTACT: Robert Seyfarth

(601) 961-5160

FUNDING: Total project \$314,555

EPA funding 251,644 State match 62,911

This study is developing a wetland management strategy and wetland restoration plan for the Lower Yazoo Basin. The Nature Conservancy is working with Department of Environmental Quality to develop

this strategy. A basin-wide biodiversity assessment is being completed and a natural resource GIS database is being developed. Landowners in the basin are being surveyed regarding wetlands and conservation programs and issues.

TITLE: Wetland Training; Wetland Delineations/Prioritizations on Tax-forfeited Properties

AGENCY: Mississippi Department of Wildlife Fisheries and Parks; Bureau of Marine Resources

2620 Beach Blvd. Biloxi, MS 39531

CONTACT: Dave Ruple

(601) 385-5860

FUNDING: Total project \$98,668

EPA funding 75,000 State match 23,668

The Bureau of Marine Resources is initiating two new wetland protection efforts in the coastal counties of Mississippi. Wetland training is being provided to state and local resource agencies. The training will enable staff to delineate tidal and non-tidal wetlands on tax-forfeited properties in the coastal counties for the purpose of generating a wetland inventory and assessment reporting. The parcels are being mapped and prioritized relative to suitability for protection, e.g., inclusion in coastal preserves, State Parks, wildlife management areas and Natural Heritage Program designations.

# **MISSOURI**

TITLE: Wetlands Identification Using the GAP Process AGENCY: Missouri Department of Natural Resources

P.O. Box 180

Jefferson City, MO 65102 CONTACT: Robert Clark

(314) 751-2867

FUNDING: Total project \$182,689

EPA funding 137,017 State match 45,672

Missouri adopted the federal definition of wetlands when the state's water quality standards were revised. A reliable inventory method is essential in producing maps depicting wetland locations with the goal to produce an up-to-date, ongoing inventory. Wetlands are being identified/classified using GAP imagery over a six county area including a major section of the Missouri River and a major metropolitan growth area.

TITLE: Wetland Characterization And Mitigation Guidelines

AGENCY: Missouri Department of Natural Resources

P.O. Box 180 Jefferson City, MO 65102

CONTACT: John Madras

(314) 751-7428

FUNDING: Total project \$286,500

EPA funding 214,875 State match 71,625

Missouri is developing water quality standards for wetlands. Wetlands are characterized in terms of temporal variations of dissolved oxygen, pH, specific conductance, and water levels. Diversity and populations of benthic and invertebrate communities are characterized along with faunal relationships with the physical and chemical wetland environment. The state is developing standard mitigation guidelines and banking rules. Missouri would like to develop mitigation procedures among the five Corps of Engineers Districts in Missouri to insure consistency in mitigation requirements for applications under Section 404. These projects are components of the Goals and Recommendations in the Missouri State Wetland Conservation Plan.

TITLE: Meramec River Watershed Demonstration Project

AGENCY: Missouri Department of Conservation

P.O. Box 176

Jefferson City, MO 65102-0180 CONTACT: Richard E. Wehnes

(314) 751-4115

FUNDING: Total project \$317,256

EPA funding 237,942 State match 79,314

Missouri is developing a comprehensive plan for the Meramec River watershed. The plan addresses wetland and water quality degradation and prioritizes approaches to river management by identifying potential socio-economic partnerships that can implement watershed improvement plans. The plan will facilitate reduction of wetland losses in the Meramec River ecosystem by identifying priority wetland areas for protection and integrating stream and stream side wetlands protection and management into a watershed context.

**TITLE: Wetland Success Stories** 

AGENCY: Missouri Department of Natural Resources

P.O. Box 180

Jefferson City, MO 65102 CONTACT: Steve McIntosh

(314) 751-7823

FUNDING: Total project \$ 49,357

EPA funding 37,017 State match 12,340 Many federal and state programs either create incentives for or require private landowners to restore, create, conserve and enhance wetlands in Missouri. These include programs such as the Soil Conservation Service's Neighbor-to-Neighbor Program, the Wetland Reserve Program, the Emergency Wetland Reserve Program, and the Fish and Wildlife Service's Partners for Wildlife Program. The state is collating a list, locations and descriptions of successful wetland projects around the state to illustrate the potential for wetlands on private land.

# **MONTANA**

TITLE: State Wetland Conservation Plan

AGENCY: Department of Health and Environmental Sciences

Water Quality Bureau Cogswell Building 1400 Broadway Helena, MT 59620

CONTACT: Jack Thomas

(406) 444-5319

FUNDING: Total project \$225,884

EPA funding 190,384 State match 88,387

This is an interagency project under the lead of the Department of Health and Environmental Sciences to develop a State Wetland Conservation Plan for the State of Montana. There are several components to this project:

- (1) Development and Implementation of a State Wetland Conservation Strategy. Montana does not have a formal mechanism to coordinate all the activities or programs that may impact wetlands. The strategy is defining the role(s) of each agency administering regulatory and non-regulatory programs, examining the effectiveness of existing programs, proposing policy or legislative changes for those laws identified that need changing, identifying voids that are not addressed by existing programs, proposing institutional changes to fill those voids and requiring the coordination of wetland conservation programs on a statewide basis.
- (2) An Expanded Wetlands Monitoring Program. This component is establishing reference standards for water quality and biological conditions for unimpaired or least-impaired wetlands. The information is being used to develop chemical and biological techniques that will be used to measure impairment to wetlands that have been exposed to environmental contamination and other stressors.
- (3) Wetlands Outreach and Education Program. The state is developing an integrated wetlands curriculum for children pre-school to grade 3; providing information to private landowners on riparian/wetlands management; and developing Wetlands Discovery Activity and Management Guides

for landowners, resource managers, interested citizens, teachers and youth. The guides include clear and concise information and illustrations on the ecology, management, function, classification, regulation, and protection of wetlands.

- (4) Upper Missouri River Watershed Management Program. The state is coordinating a resource management planning approach to address water quality, water quantity and wetlands protection in the watershed. The Conservation District Bureau is hiring a natural resource management professional to promote cooperation, consensus-based solutions for protection of natural resources.
- (5) Montana Riparian Association's Wetlands Classification, Delineation and Training Program. This interagency effort is developing a riparian wetland dominance type classification system, a riparian-wetland vegetative-based ecological site classification, an interagency database for riparian/wetland areas, a process for information exchange on managing riparian/wetland sites, and a training and continuing education program on identification and proper management of riparian-wetland ecosystems.

# **NEW HAMPSHIRE**

TITLE: Improving Timeliness of Permit Review AGENCY: Department of Environmental Services

Wetlands Bureau

PO Box 2008

Concord, NH 03302-2006 CONTACT: Ken Kettenring

(603) 271-2147

FUNDING: Total project \$112,500

EPA funding 90,000 State match 22,500

This project is reducing review time for minimal impact projects through development of a distinct application form and review procedure for these projects. Permit tracking software and hardware on the Bureau's Local Area Network is being upgraded to reflect these modified procedures. Programming is being developed to access the Department's GIS database. A pre- determined set of biophysical overlays such as aquifers, endangered species, and land use/cover data, are being made accessible to the permit reviewer.

TITLE: Vernal Pool Identification and Protection Manual for

New Hampshire Municipalities

AGENCY: Fish and Game Department

2 Hazen Drive

Concord, NH 03301

CONTACT: Chuck Miner

(603) 271-2501

FUNDING: Total project \$25,366

EPA funding 19,266 State match 6,000

This manual is providing municipalities with a method to identify vernal pools in their communities and guidance in the development and implementation of local bylaws and ordinances to protect vernal pools. In addition, direct technical assistance

is being provided to six municipalities interested in developing and implementing a vernal pool protection program in their town.

TITLE: Development of Wetland Buffer Zone Guidance for Municipalities

AGENCY: Office of State Planning

2½ Beacon Street Concord, NH 03301

CONTACT: James McLaughlin

(603) 271-2155

FUNDING: Total project \$52,560

EPA funding 37,475 State match 6,000

Other 9,085

This project is researching and establishing guidelines for buffer zone widths around wetlands. These findings are being incorporated into a "User's Guide to Wetland Buffer Zones" for municipalities. A series of workshops in various regions of the state are being conducted to educate local officials on the value and use of buffer zones to protect wetland functions.

TITLE: Technical Assistance to Municipalities to Evaluate and Protect Important Wetland Systems

AGENCY: Office of State Planning

2 ½ Beacon Street Concord, NH 03301

CONTACT: James McLaughlin

(601) 271-2155

FUNDING: Total project \$58,690

EPA funding 45,440 State match 3,000 Other 10,250

This project is helping protect wetlands in selected towns in southern New Hampshire by providing guidance and direct technical assistance in the development and implementation of a local wetland protection program. The Office of State Planning, in conjunction with the New Hampshire Audubon Society, is providing training for planning boards, conservation commissions from the chosen municipalities, and staffs of the three regional planning agencies in a variety of wetland protection

mechanisms and in the evaluation of wetlands using the New Hampshire Wetland Delineation and Assessment method.

TITLE: Identification/Protection of Regionally Significant Wetland Natural Communities: Floodplain

Forests, Black Gum Swamps and Northern White Cedar Swamps AGENCY: Department of Resources and Economic Development

Natural Heritage Program

172 Pembroke Road Concord, NH 03302

CONTACT: Dan Sperduto

(603) 271-3623

FUNDING: Total project \$81,661

EPA funding 65,329 State match 16,332

This project is identifying and assessing locations of selected rare or threatened natural community types in the state and throughout New England. Results of these surveys are being provided to municipalities, state and federal regulatory agencies, regional planning commissions, and conservation groups working to protect wetland resources. These data are being incorporated into the regulatory review process within the state which includes wetland application review and recommendations by the New Hampshire Natural Heritage Inventory Program.

### **NEW JERSEY**

TITLE: Monitoring the Effect of Watershed Disturbance on the Long-Term Biological Integrity of

Palustrine Wetland Complexes in the New Jersey Pinelands

AGENCY: New Jersey Pinelands Commission

15 Springfield Road

P.O. Box 7

New Lisbon, NJ 08064

CONTACT: Dr. Robert Zampella

(609) 894-9342

FUNDING: Total project \$112,615

EPA funding 90,092 State match 22,523

The New Jersey Pinelands Commission is developing a program to monitor the long-term integrity of important ecological attributes within several palustrine wetland complexes in several watersheds of the

Mullica River system. This study is completing a comprehensive baseline inventory of three different palustrine wetland communities within six wetland complexes. Water quality and quantity are being monitored using existing monitoring programs. The proposed target communities are: 1) Atlantic white cedar swamps; 2) frogs and toads; and 3) breeding birds. The inventories include permanent study sites and plots. The study areas are within the boundaries of protected state lands and are located directly adjacent to up gradient private lands. The private lands are available for residential development, upland agriculture, or cranberry/blueberry agriculture.

### **NEW MEXICO**

TITLE: State Wetland Conservation Plan: Riparian/Wetland Vegetation Community Type Classification

AGENCY: New Mexico Environment Department

Surface Water Quality Bureau

1190 St. Francis Dr., PO Box 26110

Santa Fe, NM 87502 CONTACT: Jim Piatt

(505) 827-0187

FUNDING: Total project \$226,562

EPA funding 170,100 State match 56,462

New Mexico is developing a comprehensive wetlands conservation plan. The state is identifying agencies (government, nonprofit and private sector) that are currently working in the state to protect wetlands. The state is establishing communication and coordination mechanisms between these entities so that duplication of activities can be avoided.

### **NEW YORK**

TITLE: Watershed Influences on Wetlands in Adirondack Ponded Subcatchments of the Oswegatchie-

Black River Watershed

AGENCY: Adirondack Park Agency

PO Box 99

Ray Brook, NY 12977

CONTACT: Edward Hood

(518) 891-4050

FUNDING: Total project \$208,586

EPA funding 129,215 State match 48,426

Other 30,945

The Adirondack Park Agency (APA) is completing the following objectives of the Oswegatchie-Black River Watershed project:

- (1) Investigate wetlands sensitive to nutrient inputs. Develop a field guide for identifying wetland types and a system for incorporating field information into GIS for these wetlands.
- (2) Examine existing/potential land use around wetlands of this watershed.
- (3) Determine underlying soils and geology for this watershed.
- (4) Access the APA's land use and development plan map; assemble available land use history (e.g. logging, fire) maps.
- (5) Develop and test the methodology of using an interactive database with an ARC/INFO database (SUNY/APA) over a large region, so that the database can be used to test correlation between lake water chemistry of hydro logically similar lakes and landscape features such as wetlands.
- (6) Determine upland vegetative cover surrounding lakes and wetlands by producing a land cover map for non-wetland areas using LANDSAT Thematic Mapper data.

TITLE: Great Swamp Protection Plan

AGENCY: Department of Environmental Conservation

Division of Fish and Wildlife

50 Wolf Road

Albany, NY 12233-4757

CONTACT: Patricia Riexinger

(518) 457-9713

Dave Tobias/The Nature Conservancy

(914) 232-9431

FUNDING: Total project \$200,000

EPA funding 150,000

State match 15,000

Other 35,000

This is a joint effort between the Department of Environmental Conservation and The Nature Conservancy to provide protection for the Great Swamp, a 4,800 acre freshwater wetland in western Putnam and southeastern Dutchess Counties. The following are being accomplished:

- (1) map the wetlands in the Great Swamp;
- (2) analyze the threats to these wetlands;
- (3) develop a system for buffer zones based in part on data sets procured by public agencies and private groups, including information on rare species habitat, tributaries, developed areas, and wetland boundaries; and

- (4) develop a comprehensive protection program for the Great Swamp. This will focus on:
- a) implementing State Wetlands Conservation Plan directives at the local level,
- b) working with municipalities to implement buffer zone criteria and designs,
- c) development/distribution of educational resources,
- d) exploration of a Transfer of Development Rights program in the watershed, with emphasis on key buffer areas.
- e) development of a tract-based protection plan, including acquisition of whole or partial interests, and management.

### NORTH CAROLINA

TITLE: Strategic Planning for North Carolina Wetland Programs

AGENCY: North Carolina Division of Environmental Management

PO Box 29535

Raleigh, NC 27626

CONTACT: John Dorney

(919) 733-1786

FUNDING: Total project \$75,503

EPA funding 60,402 State match 15,101

The DEM, with assistance from the Office of State Planning, is initiating strategic planning for wetland protection in North Carolina. This includes soliciting public input and coordinating programs among different agencies to develop a basis for preparing a State Wetlands Conservation Plan in the future. Specific activities include:

- (1) Develop and implement an education program to prepare participants for public meetings,
- (2) Conduct meetings with regional Councils of Governments to identify and discuss wetlands issues,
- (3) Survey federal, state, and local government agencies, non-profit groups and private organizations on their programs involved with wetlands,
- (4) Compile and distribute a catalog of wetlands programs, and
- (5) Conduct a meeting of wetland policy-makers to develop specific goals for North Carolina wetland

programs.

TITLE: Integrating Wetland Management/Watershed Protection; Cumulative Impact Analysis and

**Basinwide Planning** 

AGENCY: North Carolina Division of Environmental Management

PO Box 29535

Raleigh, NC 27626

**CONTACT:** John Dorney

(919) 733-1786

FUNDING: Total project \$143,005

EPA funding 114,404 State match 28,601

This two-phase project is developing a method for assessing the cumulative impacts of wetlands fill with the incorporation of this information into specific watershed management plans for targeted subbasins in North Carolina. In Phase 1, the water quality impacts of filling wetlands in rapidly urbanizing areas on the coastal plain is being addressed through cumulative impact analysis of two watershed sites. Phase 2 is incorporating the wetlands information into basinwide planning.

### **NORTH DAKOTA**

TITLE: State Wetlands Conservation Plan and Watershed and Wetlands Protection Demonstration

**Projects** 

**AGENCY: State Water Commission** 

900 East Boulevard

Bismarck, ND 58505

Game and Fish Department

100 N. Bismarck Expressway

Bismarck, ND 58501

CONTACT: Dave Sprynczynatyk

(701) 224-4940

K. L. Cool

(701) 221-6300

FUNDING: Total project \$292,500

EPA funding 234,000

State match 58,500

The State Water Commission and Game and Fish Department is completing a State Wetland

Conservation Plan to identify a comprehensive approach to protect wetlands in North Dakota, including possible state assumption of the Clean Water Act Section 404 Program. A Devils Lake Closed Basin Watershed Project is also being undertaken. Projects include:

- (1) Wetland education and information program.
- (2) Comprehensive wetlands mitigation/wetlands banking program.
- (3) Prioritization of Conservation Reserve Program Tracks critical to wetland watershed protection.
- (4) Private lands initiative, and partnership program.
- (5) Development of wetlands water quality/biocriteria database.
- (6) Devils Lake Watershed Program focusing on wetlands restoration for improved water quality in Devils Lake.

### OHIO

TITLE: Status and Trends Report; Landowners

**Assistance Guide** 

**AGENCY: Ohio Environmental Protection Agency** 

P.O. Box 1049

Columbus, OH 43266-0149

**CONTACT:** Gail Hesse

(614) 644-2146

FUNDING: Total project \$115,518

**EPA funding 86,639** 

State match 28,879

1. Status and Trends Report. Ohio is developing a biannual Wetland Status and Trends Report

process to help track losses and gains of wetland acreage, regulatory permit statistics, mitigation and restoration project information, and implementation of the Ohio Wetlands Strategy. This report compiles wetlands information into a single document which provides a snapshot of progress of Ohio's regulatory and non-regulatory wetlands programs and provides a benchmark for future program evaluation.

2. Landowner's Assistance Guide. Ohio is adapting the Landowner's Wetlands Assistance Guide: Voluntary Options for Wetlands Stewardship in Maryland" for use in Ohio. Approximately 85% of Ohio's remaining wetlands are located on private lands. This guide provides landowners intersted in wetlands conservation information about available public and private assistance programs.

TITLE: Development of a Wetland Database AGENCY: Ohio Department of Natural Resources 1840 Belcher Drive Columbus, OH 43224

**CONTACT: John Henry** 

(614) 265-7046

FUNDING: Total project \$147,500 EPA funding 70,000 State match 77,500

Ohio is incorporating biological information into the Ohio Wetlands Inventory. The state is obtaining existing data on occurrence of species in Ohio wetlands, gathering ecological information for a large study area in southeast Ohio, and designing a GIS-based system for integrating, displaying and analyzing the biological information collected.

OKLAHOMA TITLE: Oklahoma Wetland Conservation Plan

AGENCY: Office of the Secretary of Environment

PO Box 1075

Oklahoma City, OK 73101-1075

**CONTACT:** Robert Lynch

(405) 231-2693

FUNDING: Total project \$255,366

EPA funding 184,025 State match 71,341

Oklahoma is developing policy for riparian area management; establishing technical guidelines for riparian protection measures; and developing and testing a system to prioritize riparian areas for management, rehabilitation and protection. The state is developing partnerships among interested federal and state agencies, landowners, and environmental groups, along with providing a basis for public education and understanding of the role of riparian areas in protecting water quality.

#### **OREGON**

TITLE: Oregon Wetland Conservation Strategy AGENCY: Oregon Division of State Lands

775 Summer Street NE Salem, OR 97310-1337 CONTACT: Ken Bierly (503) 378-3805 Ext. 246

FUNDING: Total project \$245,000

EPA funding 185,000 State match 60,000

- (1) Wetland Inventory and Planning Support. Inventory and develop wetland conservation plans in three priority watersheds: Grande Ronde basin, Philomath (Willamette Basin) and the south coast (including the Rogue basin).
- (2) Wetland Trend Analysis. To assess wetland acreage loss and the reasons for such loss. Identify wetland stressors which may be dealt with in the regulatory process.
- (3) Wetland Training Program. Training necessary for wetland delineations on agricultural land and for use of the Oregon Freshwater Wetland Assessment Methodology.

TITLE: Lower Columbia River Wetland Habitat Research and Study

AGENCY: Oregon Department of Environmental Quality

811 SW Sixth Avenue

Portland, OR 97201-1390 CONTACT: Michael Nixon

(503) 229-5696

FUNDING: Total project \$70,000

EPA funding 45,000 State match 25,000

This project is collecting wetlands-related data necessary to undertake a risk assessment for the beneficial uses of the waters of the lower Columbia River ecosystem, as indicator species--compilation/synthesis of existing fish and wildlife data, habitat mapping and contaminant studies of indicator species (focusing on mink, river otter, large scale sucker, and bald eagle).

### **PENNSYLVANIA**

TITLE: Evaluating Watershed Approaches for Protecting Pennsylvania's Wetlands Using Cumulative Impacts Analysis and Reference Wetlands

AGENCY: Department of Environmental Resources

Office of Water Management

P.O. Box 8554

Harrisburg, PA 17105-8554

CONTACT: Kenneth R. Reisinger

(717) 541-6827

FUNDING: Total project \$224,000

EPA funding 168,000 State match 56,000

This grant is developing and evaluating a series of tools to be used by regulatory and non-regulatory staff to assess cumulative impacts of wetlands by characterizing their current functions, potential functions, and restoration potential in a watershed context. The project, using existing knowledge of individual wetlands and surrounding landscapes is aggregating information into a hierarchy of watersheds at different scales, beginning with headwater areas and isolated wetlands, and ending with watersheds of about 50-100 square miles.

### RHODE ISLAND

TITLE: Identification and Protection of Significant Deciduous Forested Wetland Communities in Rhode

Island

AGENCY: Department of Environmental Management

Natural Heritage Program

83 Park Street

Providence, RI 02903

**CONTACT:** Richard Enser

(401) 277-2776

FUNDING: Total project \$37,478

EPA funding 29,983 State match 7,495

Fieldwork in deciduous forested wetlands is identifying unique types and rare species occurrences. Immediate protection of all rare sites will result due to state wetland regulations which prohibit alteration of rare wetland types, wetlands supporting rare species, and wetlands providing other unique natural resource values.

### **TENNESSEE**

TITLE: Tennessee Wetlands Functional Assessment Methodology

AGENCY: Tennessee Department of Environment and Conservation

Division of Water Pollution Control

401 Church Street, Land Annex

Nashville, TN 37243-1534

**CONTACT:** Mike Lee

(615) 532-0712

FUNDING: Total project \$126,100

EPA funding 94,575 State match 31,525

This study is evaluating, field testing, and implementing a Wetland Functional Assessment Methodology. The procedures were developed by the Corp of Engineers as a means to evaluate the functions of various hydrogeomorphic wetland categories. The study is concentrating on developing a methodology to quantify the functions of west Tennessee bottom land hardwood forests and wetland types dominated by herbaceous vegetation. The final models being implemented will enable the state to quantify wetland functions, assess Clean Water Act Section 401 and state permit compliance rates on mitigation sites, measure attainment of objectives in the Tennessee Wetlands Conservation Strategy, and test the criteria on Outstanding Resource Wetlands.

TITLE: GIS Assessment Models for Long Term Monitoring and Evaluation of the Status and Trends of Wetlands

AGENCY: Tennessee Wildlife Resources Agency (TWRA)

PO Box 40747

Nashville, TN 37204

CONTACT: Clifton J. Whitehead

(615) 781-6599

FUNDING: Total project \$243,598

EPA funding 120,000

State match 68,598 TWRA

35,000 TDOT

#### 20,000 TDA

Tennessee's comprehensive Wetlands Conservation Strategy outlines the scope and direction of measures needed to affect wetland conservation within the state. Implementation of TWRA's work objectives to support the state's strategy involves a long- term commitment of resources and the cooperation of many varied interests. This study funds TWRA to begin the following action items identified in the strategy:

- (1) Identify and import relevant data sets into the state GIS,
- (2) Initiate work on a digital soils data set for the state GIS,
- (3) Initiate a program to digitize remaining soils data,
- (4) Test hydric soils as a predictor of successful wetland restoration,
- (5) Document the status of the state's wetlands, and
- (6) Initiate a program to define the major functions provided by the state's wetlands.

### **TEXAS**

TITLE: State Wetland Conservation Plan (Assessment of Southern Forested Wetlands in East Texas)

AGENCY: Texas Parks and Wildlife Department

4200 Smith School Road

Austin, TX 78744 CONTACT: Jim Neal

(409) 564-7145

FUNDING: Total project \$55,000

EPA funding 40,000 State match 15,000

Texas is assessing and evaluating southern forested wetlands along floodplain basins through use of remote sensing techniques to delineate the areal extent and classify types of wetlands.

TITLE: State Wetland Conservation Plan

AGENCY: Texas Parks and Wildlife Department

**Resource Protection Division** 

4200 Smith School Road

Austin, TX 78744

**CONTACT:** Leland Roberts

(512) 389-4632

FUNDING: Total project \$158,968

EPA funding 119,226 State match 39,742

Texas is developing a State Wetland Conservation Plan including goals and objectives, operational procedures among agencies, definition and initiation of needed programs, and a plan for involving private landowners.

TITLE: Assessing Water Quality Criteria for Texas Wetlands

AGENCY: Texas Natural Resources Conservation Commission

PO Box 13087

Austin, TX 78711

CONTACT: John Janak

(512) 463-8109

FUNDING: Total project \$76,581

EPA funding 57,436 State match 19,145

This project is establishing a database of wetland water quality parameters, with special emphasis on

Texas ecoregions - ecotypes, evaluating the usefulness of wetland-specific water quality standards criteria for protecting the ecological integrity of wetlands. The project is also evaluating the wetland-specific water quality parameters for applicability and variability in Texas wetlands. Additionally, the project is identifying which water quality parameters are important to protect high value tidal wetlands.

TITLE: Wetland Insect Populations as Biological Indicators: Evaluation of a Wetlands Mitigation

**Monitoring Tool** 

AGENCY: Texas Natural Resource Conservation Commission

PO Box 13087

Austin, TX 78711-3087 CONTACT: John Janak

(512) 463-8109

FUNDING: Total project \$116,289

EPA funding 79,737 State match 36,552

Texas is collecting and analyzing insect, plant and water chemistry data from 30 wetlands evenly distributed within each of the six Texas biotic provinces to develop a tool to characterize wetlands and to assess wetland mitigation projects.

TITLE: Development of a Model Coastal Wetlands Protection Plan for Local Governments

AGENCY: Texas General Land Office

1700 N. Congress Avenue

Austin, TX 78701-1495

**CONTACT:** Jennifer Thompson

(512) 475-1457

FUNDING: Total project \$86,790

EPA funding 64,857 State match 21,933

Texas is developing a model coastal wetlands protection plan for local governments. The plan familiarizes local leaders with existing wetland protection mechanisms, offers new and innovative approaches for local wetlands protection, and provides guidance for implementing management strategies.

TITLE: Wetlands and Coastal Resources Training Workshops

AGENCY: Texas Agriculture Extension Service

Rt. 2 Box 589

Corpus Christi, TX 78406

CONTACT: Will Cohen

(512) 265-9203

FUNDING: Total project \$71,547

EPA funding 53,660 State match 17,887 The state is increasing its capacity to protect its wetlands by educating state personnel about the role of wetlands in the environment. Specific objectives are:

- (1) to develop a wetlands protection handbook and slides for use as references for advising farmers and agri-businessmen about best management practices for wetlands, and
- (2) to develop and host in-service training workshops designed to educate state staff about best management practices that farmers can implement to protect and manage wetlands that occur on their farms.

### **UTAH**

TITLE: Implementation of Utah State Wetlands Conservation Plan

AGENCY: Governor's Office of Planning and Budget

116 State Capitol

Salt Lake City, UT 84114 CONTACT: Nancy Keate

(801) 538-1540

FUNDING: Total project \$295,539

EPA funding 221,654 State match 73,885

This project is assisting Utah in completing a State Wetlands Conservation Plan by completing:

- (1) Preparation of a State Wetlands Conservation Plan
- (2) Study assumption of the CWA §404 program, and
- (3) Finalize a Department of Wildlife Resources Division State Wetlands Protection Program.

### **VERMONT**

TITLE: Wetlands Advanced Planning and Protection Project

AGENCY: Department of Environmental Conservation

Agency of Natural Resources

103 South Main Street, 1 South

Waterbury, VT 05671-0401

CONTACT: Stephen Syz

(802) 241-3770

FUNDING: Total project \$112,500

EPA funding 90,000 State match 22,500

Valuable wetlands in a 26-town 1,000 square mile study area are being identified and joint protection strategies are being implemented with Regional Planning Commissions and the towns. Outreach to citizens, realtors and others to better inform them of the functions and values of these systems and the regulatory and non-regulatory mechanisms which protect them is being done.

TITLE: Identification and Conservation of Outstanding Wetland Natural Communities in the West River

Watershed

AGENCY: Department of Fish and Wildlife Nongame and Natural Heritage Program

103 South Main Street

Waterbury, VT 05671-0501

**CONTACT:** Christopher Fichtel

(802) 241-3714

FUNDING: Total project \$38,526

EPA funding 30,710 State match 1,433

Other 6,383

This project is identifying wetlands in the West River watershed in Windham County, Vermont, which have outstanding or rare ecological value and encouraging protection of these wetlands through landowner cooperation, natural areas acquisition, and regulatory means.

### **VIRGINIA**

TITLE: A Protection Plan for Southeast Virginia's Wetlands and Endangered Species Habitats in

Chesapeake, VA

AGENCY: Department of Conservation and Recreation

Division of Natural Heritage

1500 E. Main St., Suite 312

Richmond, VA 23219

CONTACT: Leslie D. Trew

(804) 371-6206

FUNDING: Total project \$104,125

EPA funding 83,300 State match 20,825

The Division of Natural Heritage is conducting a comparative wetlands ecology study and compiling protection and management information on the critical wetland ecosystems and primary natural areas in City of Chesapeake. The project is focusing on protection and management needs for the North Landing

and Northwest Rivers, and the Great Dismal Swamp Wetlands. The project is strengthening the work on sites identified to date by the Division of Natural Heritage, largely in the City of Virginia Beach and in the Albemarle-Pamlico estuary, characterizing the exceptional natural areas and identifying their site specific protection and management needs for the remainder of the region.

TITLE: Wetland Natural Areas on Virginia's Coastal Zone AGENCY: Department of Conservation and Recreation

Division of Natural Heritage 1500 E. Main St., Suite 312

Richmond, VA 23219

CONTACT: Thomas L. Smith

(804) 786-7951

FUNDING: Total project \$69,308

EPA funding 51,308 State match 18,000

Thirty-five high priority and unprotected natural areas supporting rare species and wetland natural communities are being selected for protection. For each site, a conservation plan including a natural area preserve design and site management and protection recommendations is being prepared. Ownership is being researched and landowners will be contacted about natural area protection options. The plans are being used to evaluate impacts on these natural areas from proposed development projects. The natural heritage resource data resulting from this study are being provided to local governments for inclusion in county comprehensive plans and for incorporation into environmental zone overlays for planning and project review applications.

Educational fact sheets for ten of the rarest wetland species and natural communities of the coastal zone are being prepared. Fact sheets are also being prepared on natural area protection options. These natural heritage resource fact sheets are being distributed to private and public landowners, localities, agencies and conservation organizations.

### WASHINGTON

TITLE: State Wetland Integration Strategy

AGENCY: Department of Ecology/Department of Community Development

P.O. Box 47600

Olympia, Washington 98504-7600

CONTACT: Mary Burg

(206) 407-7282

FUNDING: Total project \$270,000

EPA funding 215,000

- (1) Using GIS to Manage Wetlands on a Watershed Scale. Washington is developing GIS capability to assist local governments with their wetland conservation planning efforts, to assist in identifying restoration opportunities statewide, and for conducting a wetlands trends assessment.
- (2) State Wetlands Integration Strategy (SWIS) completion. Complete the SWIS process by conducting public outreach and developing a guidance document for local governments who are developing wetland conservation plans.

### **WEST VIRGINIA**

TITLE: West Virginia Watershed Conservation Projects

AGENCY: Department of Commerce, Labor and Environmental Resources

Division of Natural Resources Capitol Complex, Building 3

Charleston, WV 25305

CONTACT: Walter S. Brown

(304) 637-0245

FUNDING: Total project \$163,533

EPA funding 122,650 State funding 40,883

This grant builds on previous grant efforts. The Statewide Watershed Assessment is being coordinate with the developing statewide GIS. The Prototypical Watershed Plan is, with the involvement of local stakeholders, developing a management plan for a local watershed which can serve as a model statewide.

TITLE: Development of Wetland Standards; Watershed Delineation

AGENCY: Division of Environmental Protection

Office of Water Resources

1201 Greenbrier St.

Charleston, WV 25311-1088 CONTACT: Mark A. Scott

(304) 558-2107

FUNDING: Total project \$215,876

EPA funding 161,183 State match 54,693

(1) Wetland Ecology Workshop effort is producing two principle products: an ecology workshop for inspectors and permit writers and a reference manual on West Virginia wetlands based on the information developed for the workshop.

- (2) The Meadow River Wetland Study is determining the ecological value of all parcels in this watershed containing wetlands; categorizing these parcels according to the probability that they will be developed in a given time frame; and synthesizing the findings to establish a priority order for acquiring or otherwise protecting wetlands on these sites.
- (3) Development of Wetlands Standards, Regulations, and Policy: the state is reviewing and updating current wetlands provisions in the water quality standards; convening public information meetings to receive comments and recommendations; convening a formal State Water Resources Board public hearing on proposed wetlands standards; and preparing and circulating discussion draft of ONRW designation process with input from EPA, appropriate state agencies and the general public.
- (4) Wetlands Strategic Planner is beginning the process of coordinating the issues of concern on a watershed basis and integrating the components of the various programs to achieve the most productive results. Since the river planning effort is already underway, DEP proposes to initiate its strategic planning in conjunction with the watersheds identified by that process. The planner is working closely with personnel involved in the river planning process to integrate the DEP issues more comprehensively and to insure that the product of the process is representative.

### **WISCONSIN**

TITLE: Watershed Protection Plan for Assessing and Correcting Water Quality Impacts from Cranberry

Operations

AGENCY: Wisconsin Department of Natural Resources

Box 7921

Madison, WI 53707

CONTACT: Bruce Baker

(608) 266-8631

FUNDING: Total project \$200,000

EPA funding 150,000 State match 50,000

The State of Wisconsin is second in the Nation in the number of acres of cranberry beds, which are concentrated in the central, northwest and north central parts of the state. Frequently, several cranberry farms will be located in the same watershed. The impacts of cranberry operations upon wetlands and watersheds in Wisconsin have not been thoroughly addressed or assessed. The project is assessing direct impacts to wetlands from the development and operation of cranberry culture and also assessing impacts to water resources in the watershed downstream from cranberry operations. Parameters assessed include nutrients, pesticides, temperature, dissolved oxygen, toxicity, conductivity, flow and vegetation. The study is assessing the processes which affect nutrient transfer.

The study is providing data on wetland and water quality and quantity impacts in watersheds with cranberry operations. The date are being used to develop strategies, programs and techniques for reducing existing and minimizing future impacts.

TITLE: State Permit Tracking System

AGENCY: Wisconsin Department of Natural Resources

Box 7921

Madison, WI 53707

**CONTACT:** Lois Stoerzer

(608) 266-8852

FUNDING: Total project \$96,117

EPA funding 76,894 State match 19,223

DNR is working to integrate/coordinate its water programs. DNR is not currently able to track its permit decisions. This project is placing computers in the district offices and staff are being trained to track permit decisions affecting waters and wetlands and forward the information to the existing mainframe computer. From the mainframe, Central Office staff are analyzing the data and product reports on the consistency of permit decisions and what effects these decisions have on the wetlands and other waters of Wisconsin.

Quarterly analysis are being made of permit decisions for one year and examined for areas of regulatory strengths and weaknesses. From this monitoring, geographic areas and watersheds receiving substantial development pressure are being identified, areas of cumulative effects are being targeted, work plans and staffing plans are being improved by directing attention to where the need is, and other databases are being accessed by WDNR staff.

### **WYOMING**

TITLE: Implementation of the State Wetlands Bank and Digitization of State Wetlands Resources AGENCY: Department of Environmental Quality (DEQ)

122 West 25th Street, 4th West

Cheyenne, WY 82002

**CONTACT: William DiRienzo** 

(307) 777-7781

FUNDING: Total project \$108,168

EPA funding 86,534

State match 21,634

Legislation was passed by the 1994 Wyoming Legislature to implement the state's wetlands bank consistent with the Clean Water Act 404(b)(1) Guidelines and other federal requirements. Several state agencies are assisting DEQ in developing guidelines for carrying out banking requirements.

BAD RIVER BAND OF CHIPPEWA INDIANS TITLE: Wetlands Conservation Plan/Outreach

AGENCY: Bad River Band of Chippewa Indians

PO Box 39

Odanah, WI 54861

**CONTACT:** Dan Powless

(715) 682-7123

FUNDING: Total project \$41,656

EPA funding 33,325 Tribal match 8,331

The Bad River Band of Lake Superior Chippewa Indians is serving as a wetlands information center for Wisconsin tribes. The Bad River Band is focusing on learning various wetland programs and on the development of a tribal wetland conservation plan for their reservation. The wetland conservation plan addresses the threats to the Kakagon/Bad River Sloughs ecosystem. In conjunction with this, the tribe is working with the federal agencies to provide outreach services and help other Wisconsin tribes develop wetland conservation plans.

# CONFEDERATED SALISH AND KOOTENAI TRIBES OF THE FLATHEAD RESERVATION

TITLE: Watershed Demonstration Project on the Flathead Reservation

TRIBE: The Confederated Salish and Kootenai Tribes of the Flathead Reservation

P.O. Box 278

Pablo, MT 59855

CONTACT: Dave Haire (406) 675-2700 Ext. 388

FUNDING: Total project \$97,644

EPA funding 78,115 Tribal match 19,529

The tribe is conducting a Watershed Demonstration Project for the Bitterroot watershed. Criteria are being developed by the Flathead Tribes to inventory wetland resources and to identify wetlands that have incurred detrimental impacts. Outreach activities are being undertaken with stakeholders to determine what measures could be taken to restore and enhance the use of wetland resources.

### CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION

**TITLE: Watershed Protection in the Umatilla Basin** 

**AGENCY: Confederated Tribes of the Umatilla** 

**Indian Reservation** 

P.O. Box 638

Pendleton, OR 97801-0638

**CONTACT: J.H. (Joe) Richards** 

(503) 276-3447

FUNDING: Total project \$66,497

# EPA funding 47,488 Tribal match 19,009

The tribe is conducting a watershed protection approach demonstration project in the Umatilla Basin. Building on last year's grant, the tribe is developing a watershed protection program and multi-level government integrated watershed management plan.

HOPI TRIBE TITLE: Hopi Wetlands Conservation Project

AGENCY: The Hopi Tribe

Department of Water Resources

PO Box 123

Kykotsmovi, AZ 86039

CONTACT: Nat A. Nutongla

(602) 734-2441

FUNDING: Total project \$131,500

EPA funding 107,807 Tribal match 23,693

The Hopi Tribe is preparing a Hopi Wetland Conservation Plan for protecting and conserving wetlands on the Hopi Reservation. In addition, the tribe is completing a watershed protection demonstration project for the Blue Canyon area of the reservation—a unique riparian area that is currently being considered for a National or Tribal Park. An important aspect of the Wetlands Conservation is to develop a plan that provides adequate protection but still allows for economic development of the tribe. The emphasis is to establish goals that provide direct protection of the wetland resources.

### INTER-TRIBAL COUNCIL OF MICHIGAN

TITLE: Wetlands Outreach

AGENCY: Inter-Tribal Council of Michigan, Inc.

405 East Easterday Avenue Sault Ste. Marie, MI 49783

**CONTACT:** Paul Schmeichel

(906) 495-2289

FUNDING: Total project \$41,321

EPA funding 33,027 Tribal match 8,294

The Inter-Tribal Council of Michigan (MITC) is providing wetlands technical assistance to the Bay Mills Indian Community and expanding this assistance to all Michigan tribes. This project is fulfilling the need for outreach and education specific to the 404 program. MITC is determining the specific needs of each tribe and is working with the federal agencies to provide technical information and wetland management assistance. MITC's goal is to eventually develop wetland management strategies for all the Michigan tribes that request their assistance. The strategies include the identification, preservation, and management of wetlands on reservations.

### MICCOSUKEE TRIBE OF INDIANS OF FLORIDA

TITLE: Wetland Water Quality Standards

AGENCY: Miccosukee Tribe of Indians of Florida

PO Box 440021 Miami, FL 33144

CONTACT: Steve Terry

(305) 223-8380

FUNDING: Total project \$132,858

EPA funding 70,000 Tribal match 62,858

The Miccosukee Tribe has vested interests in approximately 2.1 million acres in South Florida--the vast majority of this acreage is wetlands. The tribe is collecting and analyzing water samples at 20 sites, including eight wetland reference sites on the Miccosukee Tribe's Federal Reservations. The tribe is using this information to develop wetland water quality standards and to assess and monitor the ecological integrity of the tribe's wetlands with development of potential indicators.

### NARRAGANSETT INDIAN TRIBE

TITLE: Tribal Wetlands Protection Program

AGENCY: Narragansett Indian Tribe

**PO Box 268** 

Charlestown, RI 02813

**CONTACT:** Katherine Maxwell

(401) 364-1117

FUNDING: Total project \$27,757

EPA funding 19,243 Tribal match 8,514

The tribe is developing a wetlands protection program for the protection of tribal wetlands including development of zoning by-laws, a conservation and recreation plan, and biological criteria/wetland water quality standards. In addition, the tribe is developing educational and training opportunities for tribal members and staff involved in the administration of their newly developed wetland protection program.

### **NEZ PERCE TRIBE**

TITLE: The Nez Perce Reservation Wetland Conservation Program

AGENCY: Nez Perce Tribal Executive Committee

Box 365

Lapwai, ID 83540

**CONTACT:** Daniel Picard

(208) 843-7368

FUNDING: Total project \$164,000

EPA funding 114,000 Tribal match 50,000

The tribe is developing and implementing a watershed protection approach demonstration project for the Lapwai Creek Watershed and a comprehensive Wetlands Conservation Plan for the Reservation.

### **PUEBLO OF ACOMA**

TITLE: Development of Wetlands Protection Program

AGENCY: Pueblo of Acoma

PO Box 309

Acoma, NM 87034

CONTACT: Gregory Beck

(505) 552-9866

FUNDING: Total project \$219,759

EPA funding 175,807 Tribal match 43,952

The tribe is developing a comprehensive plan for wetland areas on the reservation as an ongoing project with other tribal programs such as range management, forestry, fish and wildlife, and various agricultural

and recreational programs. By developing a Wetlands Protection Plan, these areas can be incorporated into an overall tribal lands management program.

### **PUEBLO OF LAGUNA**

TITLE: Establishing a Wetlands Program

AGENCY: Pueblo of Laguna

**PO Box 194** 

Laguna, NM 87026 CONTACT: Janet Riley

(505) 552-6654

FUNDING: Total project \$114,275

EPA funding 74,122 Tribal match 40,153

The Pueblo is developing a program to manage/conserve its wetlands as they relate to other resources. The elements of the wetlands program are being incorporated into the overall Integrated Resources Management Plan. The objectives are:

- (1) to establish a Wetlands Section within the Pueblo's Natural Resources Department,
- (2) to gather data for a Wetlands Conservation Plan,
- (3) to develop a Wetlands Conservation Plan,
- (4) to develop water quality standards,
- (5) to improve wetlands potential through watershed improvement projects, and
- (6) to gain public input on a Wetlands Conservation Plan.

### **RED LAKE BAND OF CHIPPEWA INDIANS**

TITLE: Wetlands Outreach

AGENCY: Red Lake Band of Chippewa Indians

**PO Box 279** 

Red Lake, MN 56671

CONTACT: Chuck Meyer

(218) 679-3959

FUNDING: Total project \$62,827

EPA funding 43,827

The Red Lake Band is developing expertise in both regulatory and advanced planning aspects of the wetlands program and providing wetlands outreach to the tribes of Minnesota. They are providing technical assistance in wetland delineation, wetlands regulations, and eventually, assistance in the development of individual tribal wetlands ordinances or wetlands conservation plans. Red Lake is upgrading their existing computer equipment to accommodate an expanded GIS system. They are gathering information on current needs of the Minnesota tribes and work with the federal agencies on training on policy issues.

# RINCON SAN LUISENO BAND OF MISSION INDIANS

TITLE: Tribal Wetlands Protection Plan

AGENCY: Rincon San Luiseno Band of Mission Indians

PO Box 68

Valley Center, CA 92082

CONTACT: Darrell W. Gentry

(619) 749-1051

FUNDING: Total project \$47,500

EPA funding 38,000 Tribal match 9,500

In 1992, the Rincon Tribe initiated work to develop a wetlands management program for the reservation lands along the San Luis Rey River. Rincon is defining short and long-term data requirements to assess water and wetlands quality on the Reservation. Data includes quantitative information on chemical, physical, and biological parameters. Permanent sampling and monitoring stations are being defined on the Reservation along with data collection requirements and protocols.

### SANTA CLARA PUEBLO

TITLE: Rio Grande Bosque Wetlands Project: Assessment and Monitoring the Ecological Integrity of an

Urban Wetland

AGENCY: Santa Clara Pueblo

PO Box 580

Espanola, NM 87532

CONTACT: Pamela Lucero

(505) 753-7326

FUNDING: Total project \$78,180

EPA funding 54,980 Tribal match 23,200

The tribe is developing a comprehensive wetlands monitoring and assessment plan for the Pueblo, finalizing the Pueblo's draft Wetlands Management Plan, and developing a pollution prevention strategy for remediation of the Pueblo's wetlands.

### SISSETON-WAHPETON DAKOTA NATION

TITLE: Tribal Wetlands Conservation Plan TRIBE: Sisseton-Wahpeton Dakota Nation

Box 509

Agency Village, SD 57262-0509

CONTACT: Gary Johnson (605) 698-3911 Ext. 46

FUNDING: Total project \$100,920

EPA funding 75,690 Tribal match 25,230

The tribe is developing a Tribal Wetland Conservation Plan. The tribe is undertaking activities to protect, restore, and maintain wetland resources on the reservation. With the assistance of the Natural Resource Conservation Service and U.S. Fish and Wildlife Service, the tribe utilizes existing wetland data to inventory wetland resources and identify priority wetlands on the reservation.

### WARM SPRINGS TRIBE

TITLE: Wetlands Conservation Plan and Program

AGENCY: Confederated Tribes of the Warm Springs Reservation

P.O. Box C

Warm Springs, OR 97761 CONTACT: Deepak Sehgal

(503) 553-3583

FUNDING: Total Project \$277,290

EPA funding 109,250 Tribal match 168,040

The Warm Springs Tribe is inventorying existing wetlands, identifying functions and values, refining

tribal monitoring and enforcement programs and consolidating existing tribal laws affecting wetlands. These activities provide the basis for the development of a wetlands conservation program for the reservation.

### **AMERICAN SAMOA**

TITLE: Leone Watershed Protection Project

AGENCY: American Samoa Environmental Protection Agency

Office of the Governor

Pago Pago, American Samoa 96799

CONTACT: Sheila Wiegman

FUNDING: Total project \$82,500

EPA funding 82,500

No match required; waiver authorized by legislation

Wetlands in American Samoa are protected via the efforts of several agencies and guided by the Wetlands Management Plan which was adopted by the Director of the Development Planning Office. The plan covers characterization of wetland resources, assessment of functions and values, restoration, rehabilitation and creation of wetlands, economic opportunities, village participation, and wetlands management options. American Samoa is coordinating the Wetland Plan with a watershed plan. The Leone Pala wetland is a mangrove swamp within an enclosed embayment that is experiencing wetland violations and local village development pressures. American Samoa is developing a watershed plan here and implementing it with village assistance.

### **DISTRICT OF COLUMBIA**

TITLE: A Project to Protect and Enhance the Wetlands in D.C.

AGENCY: D. C. Department of Consumer and Regulatory Affairs

614 H Street, N.W.

Washington, D.C. 20001

CONTACT: Mohsin R. Siddique

(202) 404-1120 Ext. 3041

FUNDING: Total project \$136,749

EPA funding 108,637 State match 28,112 The District is completing an Environmental Assessment of the wetlands in the District of Columbia. This document provides the District with information necessary to consider options available to the District for the protection of its wetlands, water quality improvements necessary, cost estimates of the options and further regulatory activities if necessary. This information is essential to protect the wetlands in the District.

### NORTHERN MARIANA ISLANDS

**TITLE:** Wetland Delineation

AGENCY: Commonwealth of the Northern Mariana Islands (CNMI)

Department of Public Health and Environmental Services

Division of Environmental Quality

PO Box 1304

Saipan, Mariana Islands 96950 CONTACT: Miram K. Seman

(670) 234-6114

FUNDING: Total project \$6,477

EPA funding 6,477

No match required; waiver authorized by legislation

CNMI wetlands staff attended a Guam Wetland Delineation course. Training on wetland delineation is essential to implementation of wetland protection programs. At present there are no CNMI staff who have received comprehensive training in wetlands delineation. It is necessary that there be a core of individuals knowledgeable about the value of these resources, and also having the technical skills to clearly identify and classify them.

### REPUBLIC OF PALAU

**TITLE: Wetland Delineation** 

**AGENCY: Republic of Palau** 

**Environmental Quality Protection Board** 

**PO Box 100** 

Konor, Republic of Palau 95940

**CONTACT: Gilbert U. Demei** 

### FUNDING: Total project \$16,860 EPA funding 16,860 No match required; waiver authorized by legislation

Palau wetlands staff attended a Wetland Delineation course. Training on wetland delineation is essential to the implementation of wetland protection programs. Palau is develop ing its own laws and regulations to assure protection of these water resources. It is imperative to establish a staff of individuals knowledgeable in the value, identification and classification of wetlands.

#### **U.S. VIRGIN ISLANDS**

TITLE: U.S. Virgin Islands Wetlands Protection Plan

AGENCY: Department of Planning and Natural Resources

Nisky Center Suite 231

St. Thomas, VI 00802

CONTACT: Joan Harrigan-Farrelly

(809) 777-8413

FUNDING: Total project \$54,972

EPA funding 43,978 State match 10,994

A 1992 report done by the Virgin Islands Department of Planning and Natural Resources indicates that the Department's wetlands programs need to be strengthened. This project is the first step in a comprehensive program to protect wetlands in the VI. This project is accomplishing the following:

- (1) ground truthing the National Wetlands Inventory Maps as they relate to Virgin Islands salt ponds; and
- (2) development of a GIS system. This system will be used to evaluate wetland management needs and priorities. Data in the GIS wetlands database will be used to ascertain historic losses of salt ponds. This

data will also be used to formu late salt pond protection measures, e.g., establishment of specific salt
pond boundaries and setbacks, and creation of guidelines for the maintenance and restoration of ponds.